

SPED 410

Survey of Assistive Technology

Mike Marotta, ATP

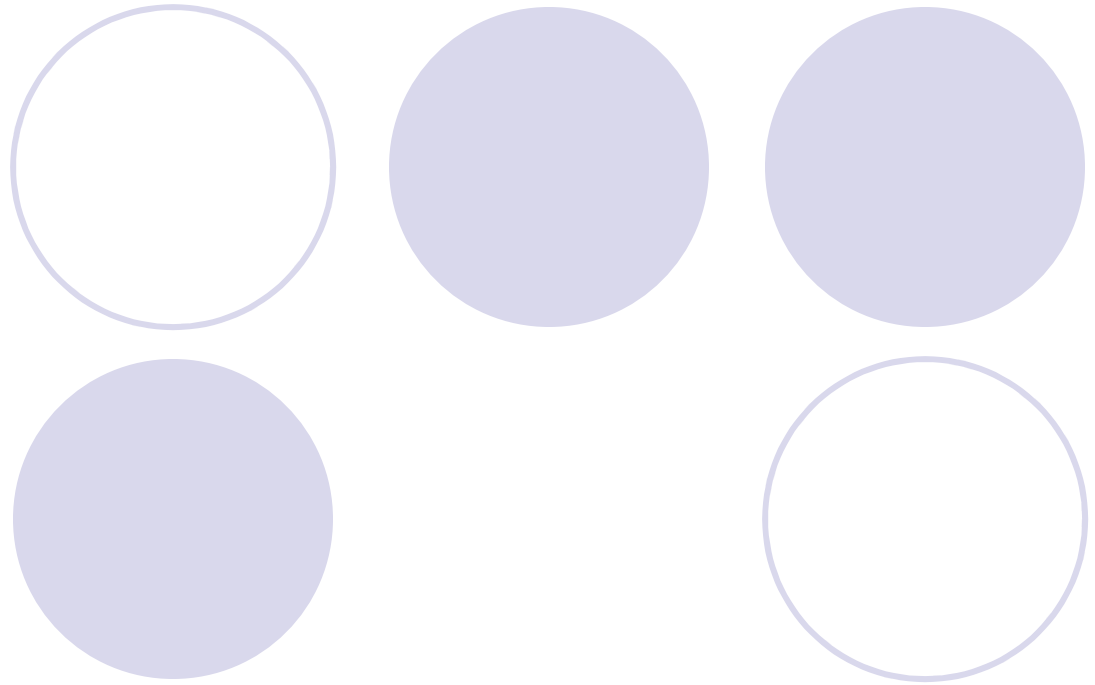
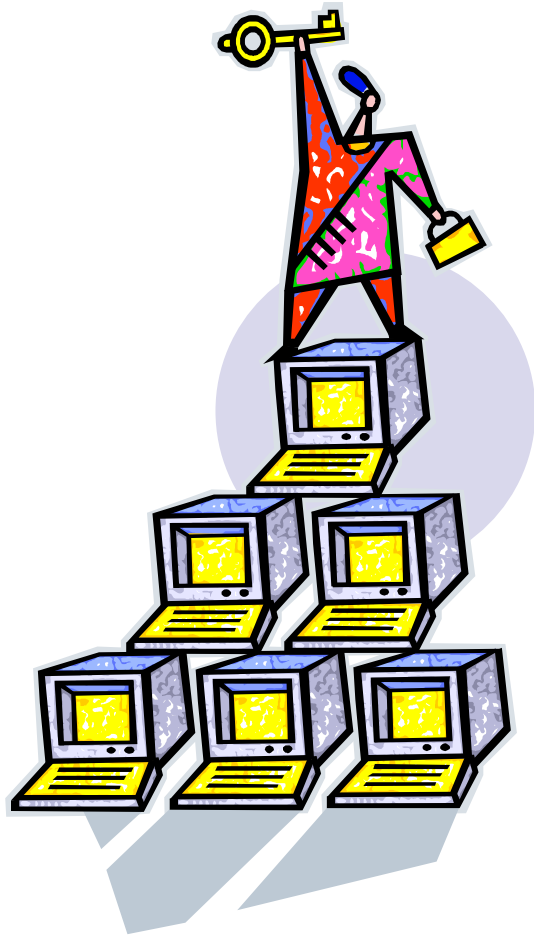


Agenda

- Revised Course Calendar
- Article Presentations
- Using what you already have!
- Universal Design for Learning

A photograph of a lecture hall. In the foreground, a wooden podium with a black gooseneck microphone is visible. The podium has a light-colored wood grain. Behind the podium, rows of tiered seating with light-colored wooden desks and maroon upholstered chairs are arranged. The walls are covered in wood paneling, and the ceiling has recessed lighting. The text "Article Presentations" is overlaid in the lower-left corner of the image.

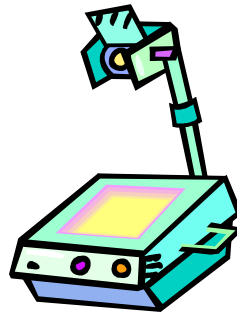
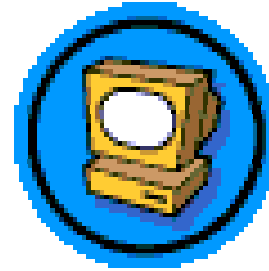
Article Presentations



Using what you
already have!

Technology Inventory

- What do you have?
- How are you using it?



Types of Classroom Technology

- Computers
- Internet access
- Digital white board
- Digital camera
- Scanner
- Video camera
- Television
- Overhead projector
- VCR / DVD
- Slide projector
- Chalk Board
- Flip chart / Easel pad
- Bulletin Boards



Anything Else???

Multiple Intelligences (Armstrong)

- Linguistic
- Spatial
- Logical – mathematical
- Musical
- Bodily – kinesthetic
- Interpersonal
- Intrapersonal



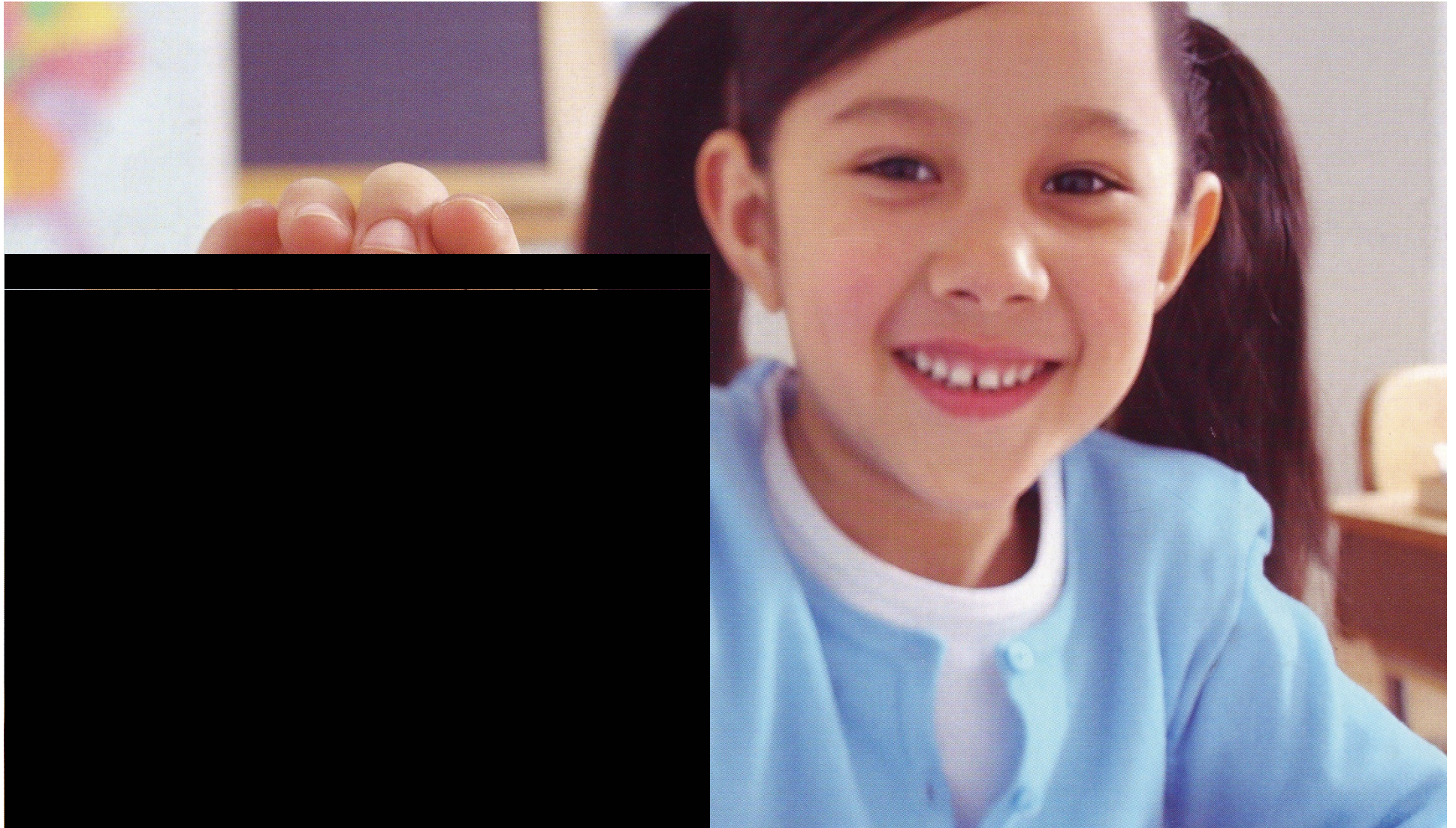
Digital Learners

What is a Digital Native?

Digital Natives are those who grew up with digital technology from birth, whereas **Digital Immigrants** are those who were already socialized in predigital ways when digital technology arrived on the scene



Digital Learners



Utilize software you already have

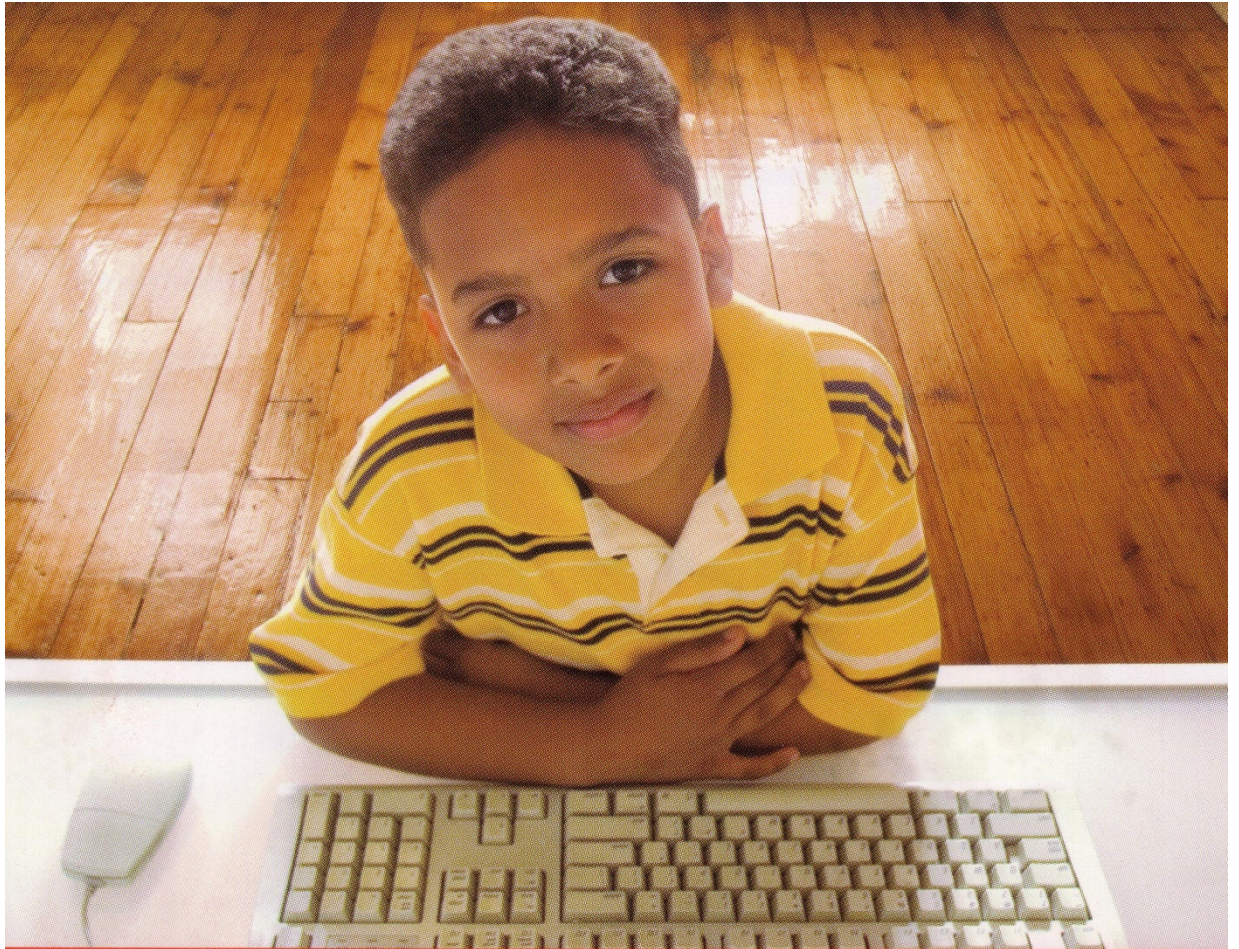
- Operating System Accessibility Features
- Microsoft Word
- Microsoft PowerPoint



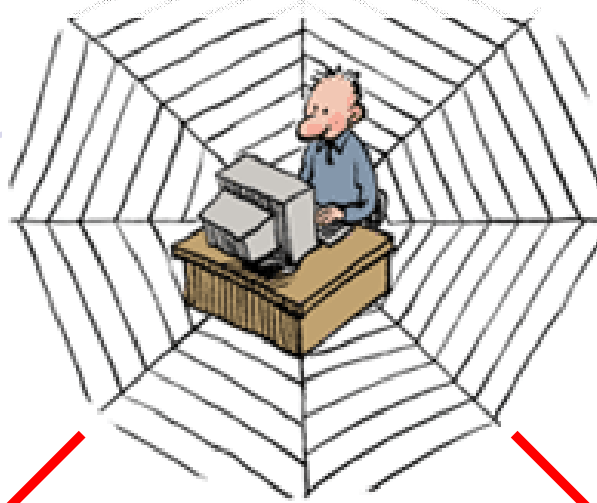
Internet

- Shareware

- Freeware



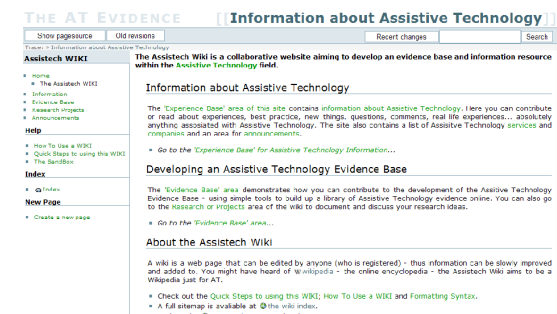
Web 2.0 Tools



Blog



Podcast



WIKIs

“Regular” Technology Tools





Universal Design for Learning



What is Universal Design for Learning?

UDL means more flexibility & a wider range of activities rather than uniformity of any kind *(Reed)*

Three Brain Networks that Support Learning

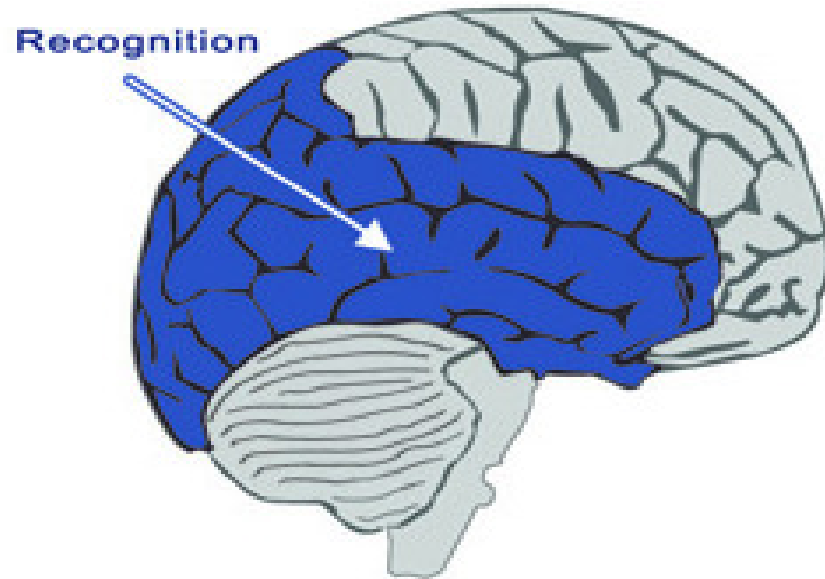
- the recognition networks
- the strategic networks
- the affective networks

(CAST)

The Recognition Network

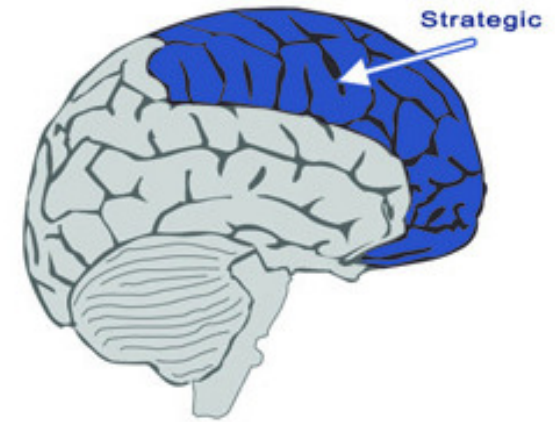
- Enables us to identify and interpret:

- sound,
- light,
- taste,
- smell,
- and touch



(CAST)

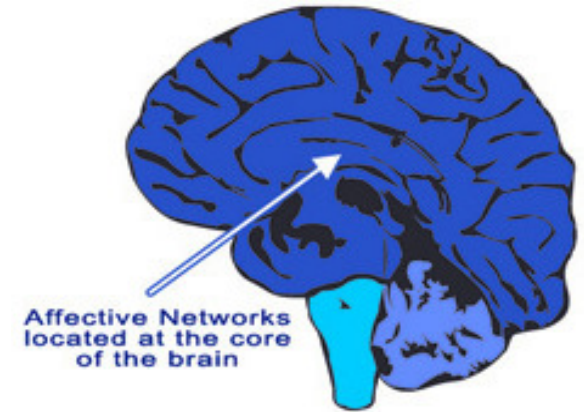
The Strategic Network



- Examples of the strategic networks at work in the classroom include:
 - planning the steps necessary to complete a project,
 - knowing how to respond to questions on a test,
 - taking notes (understanding what's important),
 - listening to a lecture (understanding what are the key elements of the lecture).

(CAST)

The Affective Network



- Enable students to engage with tasks and influence their motivation to learn :
 - responsible for developing preferences and establishing priorities and interests
 - For example – what makes us fearful, excited, able to evaluate “patterns”

(CAST)

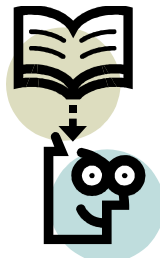
What is Universal Design for Learning?

Three Qualities of Universal Design for Learning

Multiple Means of Representation

Multiple Means of Action & Expression

Multiple Means of Engagement

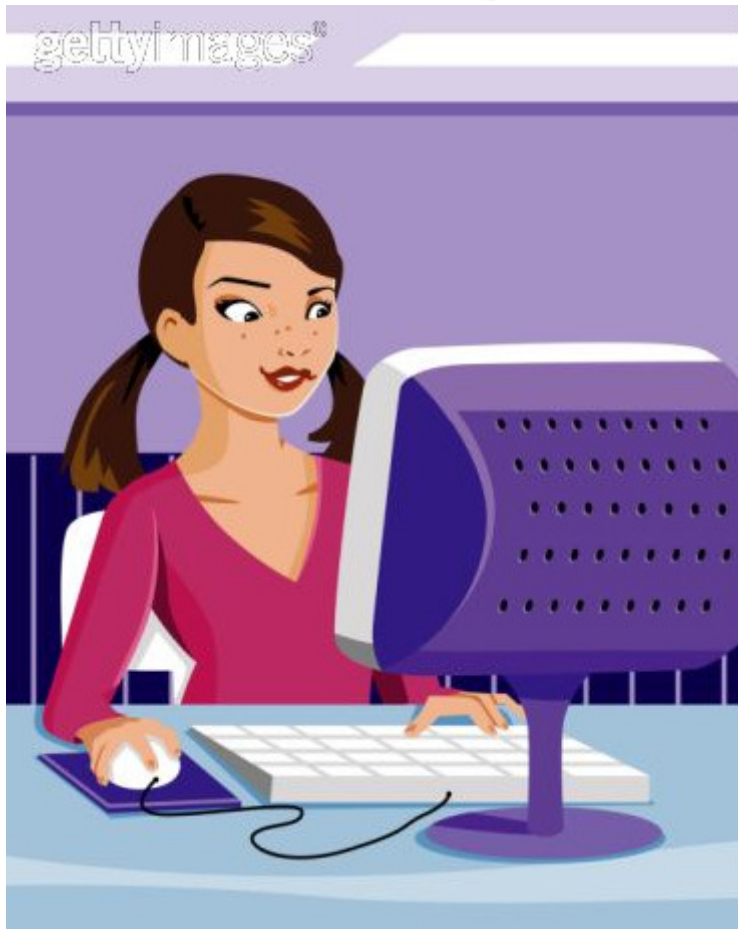


(CAST)

Is This Universal Design for
Learning?




CAST Book Builder



http://bookbuilder.cast.org/view.php?op=view&book=1445&page=4

Picturing the Plague

4 of 8



The Black Death struck the European people without warning. Unfortunately, physicians and philosophers harmed rather than helped the cause. At that time, no one understood the causes of infectious diseases, or how they spread. It is no wonder that the people looked to priests and story tellers for answers, rather than doctors. They did not have the ability to understand where this sudden, devastating disease had come from. Neither did they know whether it would ever go away.

Educated men and women, who did not believe superstitions or that the plague was sent by god, tried to come up with more logical explanations for its arrival. Some thought it was brought by a mysterious cloud of poison that was slowly moving across Europe. They attempted to prevent the disease from spreading further by burning fragrant leaves and herbs, hoping to purify the air. While successfully improving the stench of the cities filled with garbage and dead bodies, their efforts failed to stop the plague from spreading.

textHELP

Hide

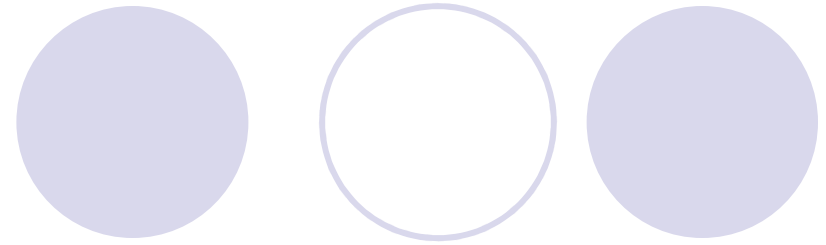
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7 tips for technology success



(Dr. Bruce Whitehead)

1. Curriculum should drive technology
2. Key to technology success is the teacher
3. Money follows success
4. Student – computer ratio of 5:1
5. Create strategy to reach “reluctants”
6. Measure success through student projects
7. Develop community awareness



Questions?
Comments?

Thanks for your attention today!



I'll see you in 2 weeks!